



Title: Software Modeling of Logic Signals Capable of Holding  
More Than Two Values  
Inventors: Blomgren, et al.  
App. Ser. No.: 09/405,618  
Docket No.: 31876.0140

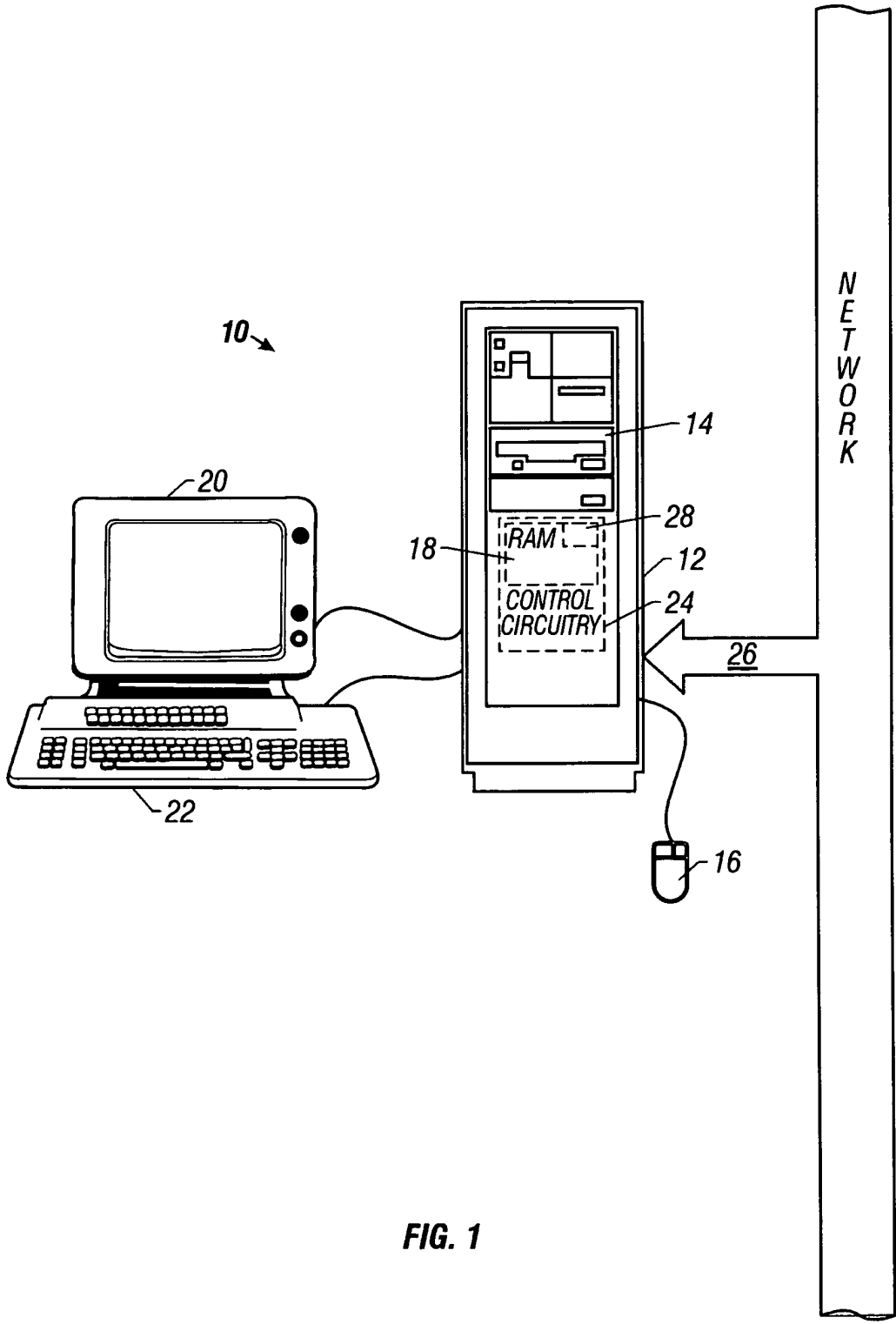


FIG. 1



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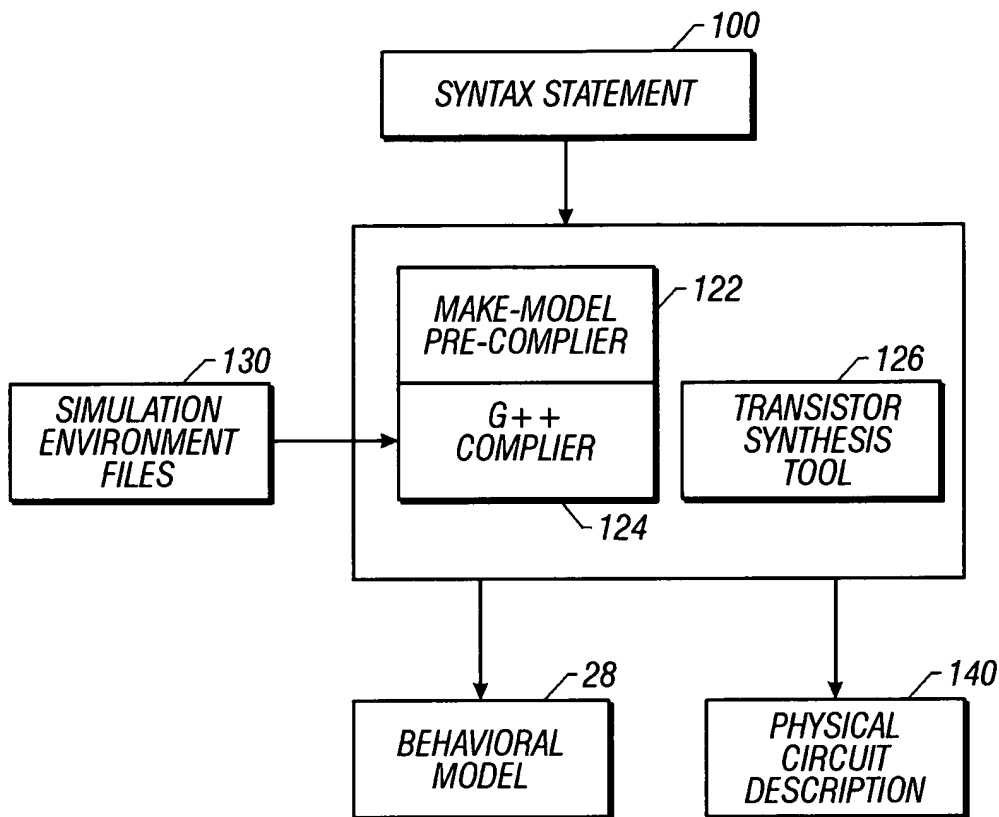


FIG. 2

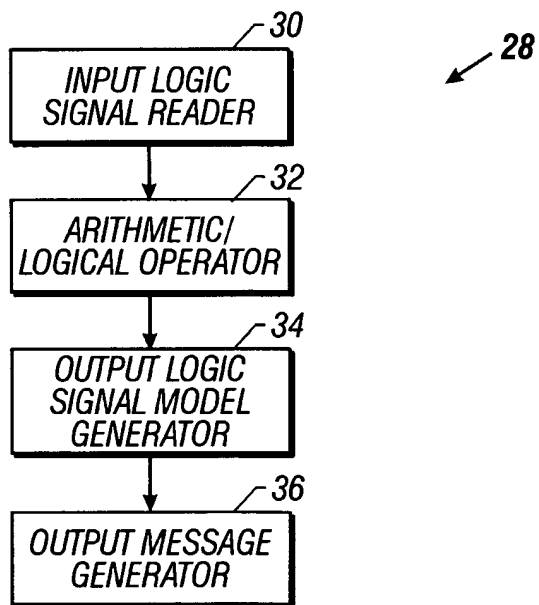
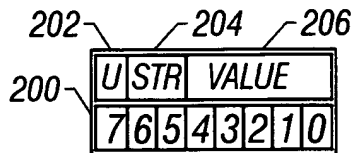


FIG. 3



STR	CORRESPONDS TO
1 1	Z - high impedance
1 0	R - weakly-driven
0 1	moderately-driven
0 0	strongly-driven



VALUE	CORRESPONDS TO	VALUE	CORRESPONDS TO
0 0 0 0 0	N-nary signal value = 0	1 0 0 0 0	N-nary signal value = 16
0 0 0 0 1	N-nary signal value = 1	1 0 0 0 1	N-nary signal value = 17
0 0 0 1 0	N-nary signal value = 2	1 0 0 1 0	N-nary signal value = 18
0 0 0 1 1	N-nary signal value = 3	1 0 0 1 1	N-nary signal value = 19
0 0 1 0 0	N-nary signal value = 4	1 0 1 0 0	N-nary signal value = 20
0 0 1 0 1	N-nary signal value = 5	1 0 1 0 1	N-nary signal value = 21
0 0 1 1 0	N-nary signal value = 6	1 0 1 1 0	N-nary signal value = 22
0 0 1 1 1	N-nary signal value = 7	1 0 1 1 1	N-nary signal value = 23
0 1 0 0 0	N-nary signal value = 8	1 1 0 0 0	N-nary signal value = 24
0 1 0 0 1	N-nary signal value = 9	1 1 0 0 1	N-nary signal value = 25
0 1 0 1 0	N-nary signal value = 10	1 1 0 1 0	N-nary signal value = 26
0 1 0 1 1	N-nary signal value = 11	1 1 0 1 1	N-nary signal value = 27
0 1 1 0 0	N-nary signal value = 12	1 1 1 0 0	N-nary signal value = 28
0 1 1 0 1	N-nary signal value = 13	1 1 1 0 1	N-nary signal value = 29
0 1 1 1 0	N-nary signal value = 14	1 1 1 1 0	N-nary signal value = 30
0 1 1 1 1	N-nary signal value = 15	1 1 1 1 1	N-nary signal value = 31

FIG. 4



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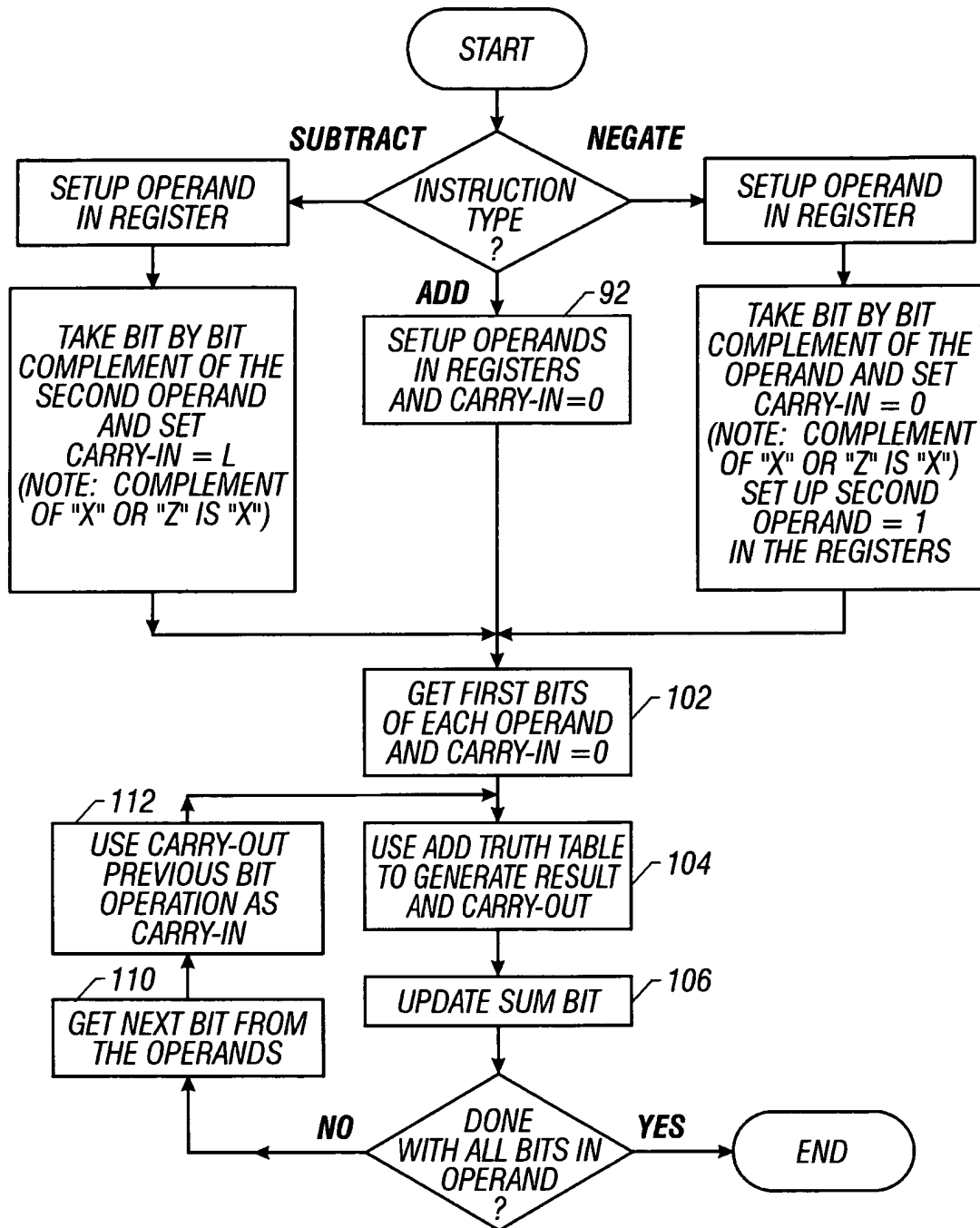


FIG. 5A



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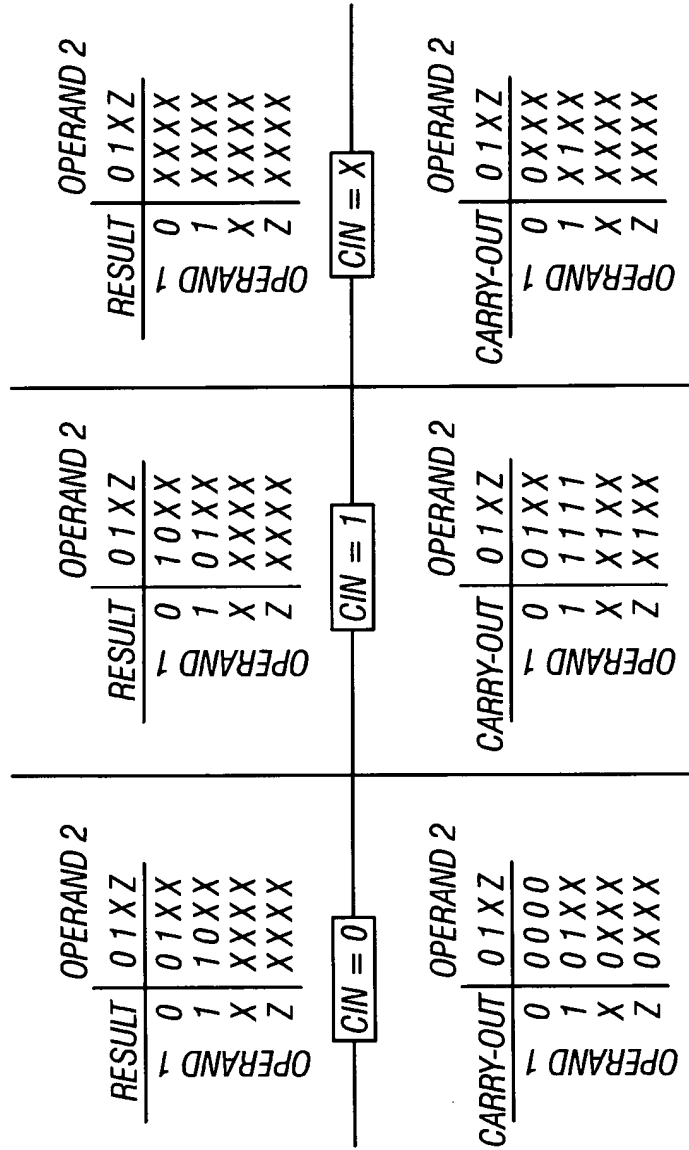


FIG. 5B

**FIG. 6**

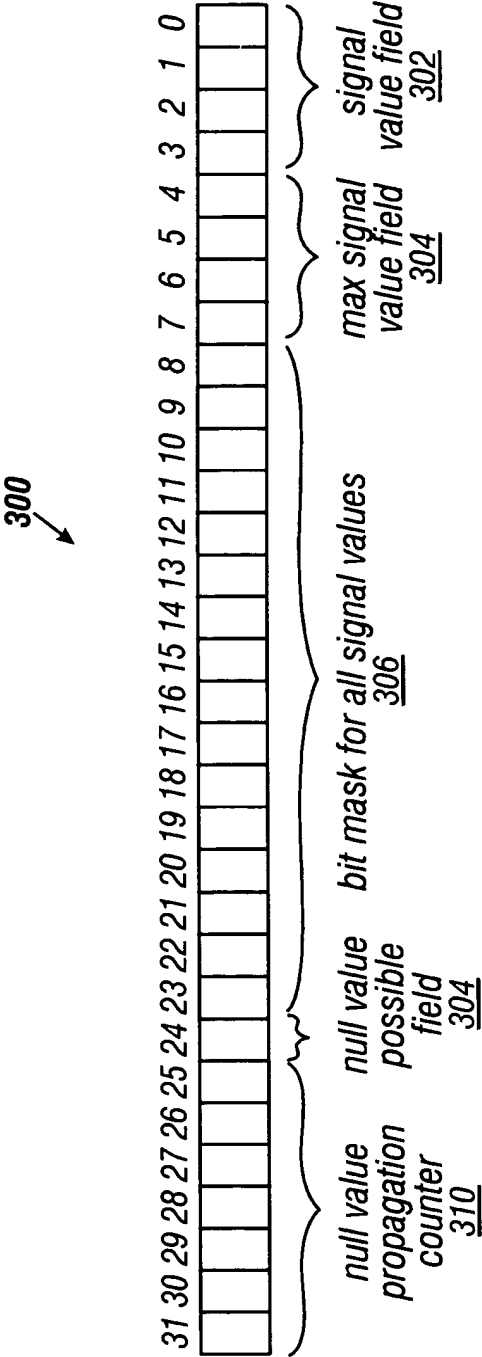


FIG. 7